**Listing of Claims**

This listing of claims will replace all prior versions and listings of claims in the application.

Claim 1 (currently amended): A method for informing an application server whether or not a mobile subscriber is present on a mobile telecommunication network, the method comprising:

a first step for sending a first signal distinctive of the mobile subscriber to the mobile telecommunication network, intended for the mobile subscriber;

a second step for determining a present or not present binary state according to a reaction of the mobile telecommunication network to said first signal; and

a third step for communicating to the application server the state determined in the second step;

wherein:

a first transition enabled by a reaction of the mobile telecommunication network indicating that a message is delivered, and respectively a second transition enabled by an expiry of a time delay without a reaction from the mobile telecommunication network, activates the second step that determines the present, or respectively not present state of the mobile subscriber;

characterized in that the first step is activated by determining for the time delay:

- when the state is not present, a first value (T1);
- when the state is present, a second value (T2) and, if needed, without reaction from the mobile telecommunication network after expiration of T2, a third value (T3).

~~and~~

~~the first step is activated, when the second step determines the present or not present binary state, by setting said time delay as a function of the present or not present state as determined in the second step.~~

Claim 2 (canceled).

Claim 3 (previously presented): The method of claim 1, wherein said first signal is a short message sent to the mobile telecommunication network intended for the mobile subscriber, the method further comprising:

positioning a data coding scheme parameter in a header of the short message at a value that has the effect of commanding the mobile receiving the message to discard the content of the message and to deactivate a message received indication on the mobile.

Claim 4 (previously presented): The method of claim 1, wherein the first step is activated during an activation of the second step by positioning a time delay that is a function of the present or not present state determined in the second step.

Claim 5 (previously presented): The method of claim 4, further comprising:

a step of a wait time activated when the second step determines the present state so as to activate the first step after expiry of the wait time

Claim 6 (previously presented): The method of claim 1, wherein:

said first signal consists of a telecommunication network node interrogation of the present or not present state of the mobile subscriber; and

the reaction of the mobile telecommunication network includes a response of the telecommunication network node on the present or not present state of the mobile subscriber.

Claim 7 (previously presented): The method of claim 1, wherein:

said first signal consists of a positioning of a detection point on a telecommunication network node relating to any modification of the present or not present state of the mobile subscriber; and

the reaction of the mobile telecommunication network includes a notification of the telecommunication network node relating to each modification of the present or not present state of the mobile subscriber.

Claim 8 (previously presented): The method of claim 1, wherein an activation of the third step communicating the present state to the application server is followed by an activation of the third step communicating the not present state to the application server when the state determined in the second step passes from present to not present.

Claim 9 (previously presented): The method of claim 1, wherein an activation of the third step results from a transition enabled by a request originating from the server to request the state of the mobile subscriber.

Claim 10 (currently amended): A system for informing an application server whether or not a mobile subscriber is present on a mobile telecommunication network, comprising:

first means for sending a first signal distinct of the mobile subscriber to the mobile telecommunication network, intended for the mobile subscriber;

second means for determining a present or not present binary state according to a reaction of the mobile telecommunication network to said first signal; and

third means for communicating to the application server the state determined by the second means;

wherein:

a first transition enabled by a reaction of the mobile telecommunication network indicating that a message is delivered, respectively a second transition enabled by an expiry of a time delay without reaction from the mobile telecommunication network, activates the second means for determining the present, respectively not present state of the mobile subscriber;

characterized in that the first means are activated by determining for time delay:

- when the state is not present, a first value (T1);
- when the state is present, a second value (T2) and, if needed, without reaction from the mobile telecommunication network after expiration of T2, a third value (T3).

~~and~~

~~the first means is activated, when the second step determines the present or not present binary state, by setting said time delay as a function of the present or not present state as determined by the second means.~~

Claim 11 (previously presented): The system of claim 10, wherein:

the first means is arranged to send the first signal in the form of a short message intended for the mobile subscriber; and

the second means is arranged to determine the present state when the short message is delivered and to determine the not present state when the short message is not delivered after expiry of a preset time delay.

Claim 12 (previously presented): The system of claim 11, wherein the first means is are arranged to send said first signal at regular time intervals that depend on the present or not present state of the mobile subscriber.

Claim 13 (canceled).

Claim 14 (currently amended): A method for informing an application server whether or not a mobile subscriber is present on a mobile telecommunication network, the method comprising:

a first step for sending a first signal distinctive of the mobile subscriber to the mobile telecommunication network, intended for the mobile subscriber;

a second step for determining a present or not present binary state according to a reaction of the mobile telecommunication network to said first signal or determining a default state if no prior first signal has been sent; and

a third step for communicating to the application server the state determined in the second step;

wherein:

a first transition enabled by a reaction of the mobile telecommunication network indicating that a message is delivered, and respectively a second transition enabled by an expiry of a time delay without a reaction from the mobile telecommunication network, activates the second step that determines the present, or respectively not present state of the mobile subscriber;

<u>characterized in that the first step is activated by determining for time delay:</u>

<u>- when the state is not present, a first value (T1);</u>

- when the state is present, a second value (T2) and, if needed, without reaction from the mobile telecommunication network after expiration of T2, a third value (T3).

~~and~~

~~the first step is activated, when the second step determines the present or not present binary state, by setting said time delay as a function of the present or not present state as determined in the second step.~~